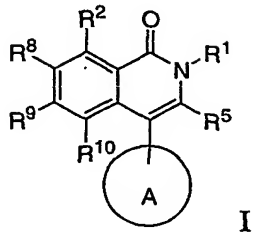
WHAT IS CLAIMED IS:

1. A compound of the structure:



I

or a pharmaceutically acceptable salt, crystal form, or hydrate, wherein:
A is

a) an aryl ring, wherein any stable aryl ring atom is independently unsubstituted or substituted with

1) halogen,
2) NO_2,
3) CN,
4) $CR^{46}=C(R^{47}R^{48})_2$,
5) $C\equiv C\ R^{46}$,
6) $(CR^iR^j)_rOR^{46}$,
7) $(CR^iR^j)_rN(R^{46}R^{47})$,
8) $(CR^iR^j)_r\ C(O)R^{46}$,
9) $(CR^iR^j)_r\ C(O)OR^{46}$,
10) $(CR^iR^j)_rR^{46}$,
11) $(CR^iR^j)_r\ S(O)_{0-2}R^{61}$,
12) $(CR^iR^j)_r\ S(O)_{0-2}N(R^{46}R^{47})$,
13) $OS(O)_{0-2}R^{61}$,
14) $N(R^{46})C(O)R^{47}$,
15) $N(R^{46})S(O)_{0-2}R^{61}$,
16) $(CR^iR^j)_rN(R^{46})R^{61}$,
17) $(CR^iR^j)_rN(R^{46})R^{61}OR^{47}$,
18) $(CR^iR^j)_rN(R^{46})(CR^kR^l)_sC(O)N(R^{47}R^{48})$,
19) $N(R^{46})(CR^iR^j)_rR^{61}$,
20) $N(R^{46})(CR^iR^j)_rN(R^{47}R^{48})$,
21) $(CR^iR^j)_rC(O)N(R^{47}R^{48})$, or

22) oxo, or

b) a heteroaryl ring selected from the group consisting of
a 5-membered unsaturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S,
a 6-membered unsaturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting N, O and S, and
a 9- or 10-membered unsaturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S;

wherein any stable S heteroaryl ring atom is unsubstituted or mono- or di-substituted with oxo, and any stable C or N heteroaryl ring atom is independently unsubstituted or substituted with

1) halogen,
2) NO_2,
3) CN,
4) $CR^{46}=C(R^{47}R^{48})_2$,
5) $C\equiv CR^{46}$,
6) $(CR^iR^j)_rOR^{46}$,
7) $(CR^iR^j)_rN(R^{46}R^{47})$,
8) $(CR^iR^j)_r C(O)R^{46}$,
9) $(CR^iR^j)_r C(O)OR^{46}$,
10) $(CR^iR^j)_rR^{46}$,
11) $(CR^iR^j)_r S(O)_{0-2}R^{61}$,
12) $(CR^iR^j)_r S(O)_{0-2}N(R^{46}R^{47})$,
13) $OS(O)_{0-2}R^{61}$,
14) $N(R^{46})C(O)R^{47}$,
15) $N(R^{46})S(O)_{0-2}R^{61}$,
16) $(CR^iR^j)_rN(R^{46})R^{61}$,
17) $(CR^iR^j)_rN(R^{46})R^{61}OR^{47}$,
18) $(CR^iR^j)_rN(R^{46})(CR^kR^l)_sC(O)N(R^{47}R^{48})$,
19) $N(R^{46})(CR^iR^j)_rR^{61}$,
20) $N(R^{46})(CR^iR^j)_rN(R^{47}R^{48})$,
21) $(CR^iR^j)_rC(O)N(R^{47}R^{48})$, or
22) oxo;

R^1 is selected from the group consisting of

1) hydrogen,
2) $(CR^aR^b)_nR^{40}$
3) $(CR^aR^b)_nOR^{40}$,
4) $(CR^aR^b)_nN(R^{40}R^{41})$,
5) $(CR^aR^b)_nN(R^{40})C(O)OR^{41}$,
6) $(CR^aR^b)_nN(R^{40})(CR^cR^d)_2N(R^{41})C(O)R^{49}$,
7) C_{3-8} cycloalkyl,
8) $(CR^aR^b)_nC(O)OR^{40}$,
9) $(CR^aR^b)_nN(R^{40})(CR^cR^d)_{1-3}R^{41}$,
10) $(CR^aR^b)_nS(O)_{0-2}R^6$,
11) $(CR^aR^b)_nS(O)_{0-2}N(R^{40}R^{41})$,
12) $(CR^aR^b)_nN(R^{40})R^6OR^{41}$,
13) $(CR^aR^b)_nN(R^{40})(CR^cR^d)_{0-6}C(O)N(R^{41}R^{42})$;

R^5 is selected from the group consisting of

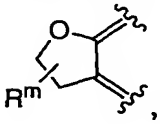
1) $C(O)N(R^{55}R^{50})$,
2) $C(O)OR^{55}$, and
3) $C(O)R^{82}$;

R^2, R^8, R^9 and R^{10} are independently selected from:

1) hydrogen,
2) halogen,
3) NO_2,
4) CN,
5) $CR^{43}=C(R^{44}R^{45})$,
6) $C\equiv CR^{43}$,
7) $(CR^eR^f)_pOR^{43}$,
8) $(CR^eR^f)_pN(R^{43}R^{44})$,
9) $(CR^eR^f)_pC(O)R^{43}$,
10) $(CR^eR^f)_pC(O)OR^{43}$,
11) $(CR^eR^f)_pR^{43}$,
12) $(CR^eR^f)_pS(O)_{0-2}R^{60}$,
13) $(CR^eR^f)_pS(O)_{0-2}N(R^{43}R^{44})$,
14) $OS(O)_{0-2}R^{60}$,
15) $N(R^{43})C(O)R^{44}$,

16) $N(R^{43})S(O)_{0-2}R^{60}$,
17) $(CR^eR^f)_pN(R^{43})R^{60}$,
18) $(CR^eR^f)_pN(R^{43})R^{60}OR^{44}$,
19) $(CR^eR^f)_pN(R^{43})(CR^gR^h)_qC(O)N(R^{44}R^{45})$,
20) $N(R^{43})(CR^eR^f)_pR^{60}$,
21) $N(R^{43})(CR^eR^f)_pN(R^{44}R^{45})$, and
22) $(CR^eR^f)_pC(O)N(R^{43}R^{44})$,

or R^2 and R^8 are independently as defined above, and R^9 and R^{10}, together with the atoms to which they are attached, form the ring



, where R^m is C_{1-6}alkyl;

R^a, R^b, R^c, R^d, R^e, R^f, R^g, R^h, R^i, R^j, R^k and R^l are independently selected from the group consisting of:

1) hydrogen,
2) C_1-C_6 alkyl,
3) halogen,
4) aryl,
5) R^{80},
6) C_3-C_{10} cycloalkyl, and
7) OR^4,

said alkyl, aryl, and cycloalkyl being unsubstituted, monosubstituted with R^7, disubstituted with R^7 and R^{15}, trisubstituted with R^7, R^{15} and R^{16}, or tetrasubstituted with R^7, R^{15}, R^{16} and R^{17};

R^4, R^{40}, R^{41}, R^{42}, R^{43}, R^{44}, R^{45}, R^{46}, R^{47}, R^{48}, R^{49}, R^{50}, R^{51}, R^{52}, and R^{55} are independently selected from the group consisting of

1) hydrogen,
2) C_1-C_6 alkyl,
3) C_3-C_{10} cycloalkyl,
4) aryl,
5) R^{81},
6) CF_3,
7) C_2-C_6 alkenyl, and
8) C_2-C_6 alkynyl,

said alkyl, aryl, and cycloalkyl is unsubstituted, mono-substituted with R^{18}, di-substituted with R^{18} and R^{19}, tri-substituted with R^{18}, R^{19} and R^{20}, or tetra-substituted with R^{18}, R^{19}, R^{20} and R^{21};

R^6, R^{60}, R^{61}, and R^{62} are independently selected from the group consisting of

1) C_1-C_6 alkyl,

2) aryl,

3) R^{83}, and

4) C_3-C_{10} cycloalkyl;

said alkyl, aryl, and cycloalkyl is unsubstituted, mono-substituted with R^{26}, di-substituted with R^{26} and R^{27}, tri-substituted with R^{26}, R^{27} and R^{28}, or tetra-substituted with R^{26}, R^{27}, R^{28} and R^{29};

R^7, R^{15}, R^{16}, R^{17}, R^{18}, R^{19}, R^{20}, R^{21}, R^{26}, R^{27}, R^{28}, and R^{29} are independently selected from the group consisting of

1) C_1-C_6 alkyl,

2) halogen,

3) OR^{51},

4) CF_3,

5) aryl,

6) C_3-C_{10} cycloalkyl,

7) R^{84},

8) $S(O)_{0-2}N(R^{51}R^{52})$,

9) $C(O)OR^{51}$,

10) $C(O)R^{51}$,

11) CN,

12) $C(O)N(R^{51}R^{52})$,

13) $N(R^{51})C(O)R^{52}$,

14) $S(O)_{0-2}R^{62}$,

15) NO_2, and

16) $N(R^{51}R^{52})$;

R^{80}, R^{81}, R^{82}, R^{83}, and R^{84} are independently selected from a group of unsubstituted or substituted heterocyclic rings consisting of a 4-6 membered unsaturated or saturated monocyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting N, O and S, and a

9- or 10-membered unsaturated or saturated bicyclic ring with 1, 2, 3 or 4 heteroatom ring atoms selected from the group consisting or N, O or S; and

n, p, q, r, and s are independently 0, 1, 2, 3, 4, 5 or 6.

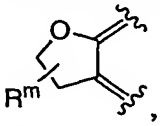
2. A compound of Claim 1, or a pharmaceutically acceptable salt thereof, wherein

A is an aryl ring selected from phenyl, unsubstituted or substituted as in Claim 1, or a heteroaryl ring, unsubstituted or substituted as in Claim 1, selected from the group consisting of pyridine, pyrimidine, pyrazine, pyridazine, indole, pyrrolopyridine, benzimidazole, benzoxazole, benzothiazole, and benzoxadiazole;

R^2, R^8, R^9 and R^{10} are independently selected from the group consisting of:

1) hydrogen,
2) halogen,
3) OR^{43}, and
4) $(CR^eR^f)_pR^{43}$,

or R^2 and R^8 are independently as defined above, and R^9 and R^{10}, together with the atoms to which they are attached, form the ring



, where R^m is C_{1-6}alkyl;

R^1 is selected from the group consisting of

1) hydrogen,
2) $(CR^aR^b)_{1-2}R^{40}$
3) $(CR^aR^b)_{1-2}OR^{40}$,
4) $(CR^aR^b)_{1-2}N(R^{40}R^{41})$,
5) $(CR^aR^b)_{1-2}N(R^{40})C(O)OR^{41}$,
6) $(CR^aR^b)_{1-2}N(R^{40})(CR^cR^d)_2N(R^{41})C(O)R^{49}$,
7) $(CR^aR^b)_{1-2}C(O)OR^{40}$,
8) $(CR^aR^b)_{1-2}N(R^{40})(CR^cR^d)_{1-3}R^{41}$, and
9) cyclopropyl.

3. A compound of Claim 2, or a pharmaceutically acceptable salt thereof, wherein

R^2, R^8, R^9 and R^{10} are independently selected from the group consisting of

1) hydrogen,
2) halogen, and
3) $(CR^eR^f)_pOR^{43}$.

4. A compound of Claim 3, or a pharmaceutically acceptable salt thereof, wherein

R^1 is selected from the group consisting of

1) hydrogen,
2) $(CR^aR^b)_nR^{40}$, and
3) $(CR^aR^b)_nOR^{40}$.

5. A compound of Claim 4, or a pharmaceutically acceptable salt thereof, wherein

A is an aryl ring, wherein the aryl ring atom is unsubstituted or substituted with halogen; and

R^5 is selected from the group consisting of

1) $C(O)N(R^{55}R^{50})$,
2) $C(O)OR^{55}$, and
3) $C(O)R^{82}$.

6. A compound of Claim 5, or a pharmaceutically acceptable salt thereof, wherein

R^1 is $-CH_3$, $-CH_2CHCH_2$, or cyclopropyl;

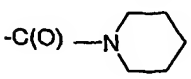
R^2 and R^{10} are hydrogen;

R^8 is hydrogen or $-OCH_3$;

R^9 is hydrogen or $-OCH_3$; and

R^5 is selected from the group consisting of

$-C(O)N(CH_3)_2$, $-C(O)NH_2$, $-C(O)OCH_3$, $-C(O)OH$, $-C(O)OCH_2CH_3$, and



7. A compound of Claim 6, or a pharmaceutically acceptable salt thereof, selected from the group consisting of

4-(3-fluorophenyl)-6-methoxy-n,n,2-trimethyl-1-oxo-1,2-dihydroisoquinoline-3-carboxamide,

4-(3-fluorophenyl)-6-methoxy-2-methyl-3-(pyrrolidin-1-ylcarbonyl)isoquinolin-1(2H)-one,

2-allyl-6-methoxy-1-oxo-4-phenyl-1,2-dihydroisoquinoline-3-carboxamide,

6-methoxy-2-methyl-4-phenyl-3-pyridin-2-ylisoquinolin-1(2h)-one,

2-cyclopropyl-6-methoxy-4-phenyl-3-(1,3-thiazol-2-yl)isoquinolin-1(2h)-one,

methyl 4-(3-fluorophenyl)-6-methoxy-2-methyl-1-oxo-1,2-dihydroisoquinoline-3-carboxylate,

methyl 6-methoxy-2-methyl-1-oxo-4-phenyl-1,2-dihydroisoquinoline-3-carboxylate,

7-methoxy-2-methyl-1-oxo-4-phenyl-1,2-dihydroisoquinoline-3-carboxylic acid,

methyl 7-methoxy-2-methyl-1-oxo-4-phenyl-1,2-dihydroisoquinoline-3-carboxylate, and

ethyl 2-methyl-1-oxo-4-phenyl-1,2-dihydroisoquinoline-3-carboxylate.

8. A method of treating a condition in a mammal, the treatment of which is effected or facilitated by $K_V1.5$ inhibition, which comprises administering a compound of Claim 1 in an amount that is effective at inhibiting $K_V1.5$.

9. A method of Claim 8, wherein the condition is cardiac arrythmia.

10. A method of Claim 9, wherein the cardiac arrythmia is atrial fibrillation.

11. A method of Claim 9, wherein the cardiac arrythmia is selected from the group consisting of atrial flutter, atrial arrhythmia and supraventricular tachycardia.

12. A method of preventing a condition in a mammal, the prevention of which is effected or facilitated by $K_V1.5$ inhibition, which comprises administering a compound of Claim 1 in an amount that is effective at inhibiting $K_V1.5$.

13. A method of Claim 12, wherein the condition is cardiac arrythmia.

14. A method of Claim 13, wherein the cardiac arrythmia is atrial fibrillation.

15. A method of Claim 13, wherein the cardiac arrythmia is selected from the group consisting of atrial flutter, atrial arrhythmia and supraventricular tachycardia.

16. A method of Claim12, wherein the condition is a thromboembolic event.

17. A method of Claim 16, wherein the thromboembolic event is a stroke.

18. A method of Claim 12, wherein the condition is congestive heart failure.

19. A pharmaceutical formulation comprising a pharmaceutically acceptable carrier and the compound Claim 1 or a pharmaceutically acceptable crystal form or hydrate thereof.

20. A pharmaceutical composition made by combining the compound of Claim 1 and a pharmaceutically acceptable carrier.

21. A method of treating cardiac arrythmia comprising administering a compound of Claim 1 with a compound selected from one of the classes of compounds consisting of antiarrhythmic agents having Kv1.5 blocking activities, ACE inhibitors, angiotensin II antagonists, cardiac glycosides, L-type calcium channel blockers, T-type calcium channel blockers, selective and nonselective beta blockers, endothelin antagonists, thrombin inhibitors, aspirin, nonselective NSAIDs, warfarin, factor Xa inhibitors, low molecular weight heparin, unfractionated heparin, clopidogrel, ticlopidine, IIb/IIIa receptor antagonists, 5HT

receptor antagonists, integrin receptor antagonists, thromboxane receptor antagonists, TAFI inhibitors and P2T receptor antagonists.

22. A method for inducing a condition of normal sinus rhythm in a patient having atrial fibrillation, which comprises treating the patient with a compound of Claim 1.

23. A method for treating tachycardia in a patient which comprises treating the patient with an antitachycardia device in combination with a compound of Claim 1.